CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-06-26-11** **Date: 27-06-2017**

Customer : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward no.04

Agency : H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/35/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-2017

Sample ID No : 2017-06-26-11/01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 26-06-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.34	–
2	Finess by Air permeablity method (m^2/kg, Min)	263.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
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Quality Manager

****End of Report****

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-26-11** **Date: 24-07-2017**
Customer	:	Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward no.04
Agency	:	H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64
Customer's Reference	:	EE(Project)/Ynk Zone/WO/35/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-2017
Sample ID No	:	2017-06-26-11/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-06-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-26-11** **Date: 29-06-2017**
Customer	:	Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward
Agency	:	H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64
Customer Reference	:	EE(Project)/Ynk Zone/WO/35/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-2017
Sample ID No	:	2017-06-26-11-02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	265	265	5.3	94.7	90-100
3	10 mm	2635	2900	58.0	42.0	25-55
4	4.75 mm	1756	4656	93.1	6.9	0-10
5	Pan	344	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-26-11** **Date: 29-06-2017**

Sample ID No : 2017-06-26-11-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-26-11** **Date: 29-06-2017**

Customer : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Structural roof covering (By space frames) over gallery to Hoysala play

Agency : H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/35/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-2017

Sample ID No : 2017-06-26-11-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-06-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	154	240	24.0	76.0	60-95	75-100	85-100	95-100
4	1.18 mm	142	382	38.2	61.8	30-70	55-90	75-100	90-100
5	600 micron	166	548	54.8	45.2	15-34	35-59	60-79	80-100
6	300 micron	187	735	73.5	26.5	5-20	8-30	12-40	15-50
7	150 micron	175	910	91.0	9.0	0-10	0-10	0-10	0-15
8	Pan	90	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-26-11** **Date: 29-06-2017**

Sample ID No : 2017-06-26-11-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.3	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Authorized Signatory
Quality Manager

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-06-28-02** **Date: 29-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward no.04
Agency	:	H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64
Customer's Reference	:	EE(Project)/Ynk Zone/WO/35/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-06-2017
Sample ID No	:	2017-06-28-02-01
Sample Type	:	Sunvik Fe500
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	28-06-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik Fe500	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	Sunvik Fe500	Fe500	10	0.615	570	683	20.0%	Satisfactory	Satisfactory
3	Sunvik Fe500	Fe500	16	1.580	595	686	19.0%	Satisfactory	Satisfactory
4	Sunvik Fe500	Fe500	20	2.470	602	692	19.0%	Satisfactory	Satisfactory
5	Sunvik Fe500	Fe500	25	3.850	612	694	18.5%	Satisfactory	Satisfactory

Note:

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Quality Manager

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-10-07** **Date: 11/07/2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward no.04

Agency : H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/35/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2017

Sample ID No : 2017-07-10-07-01

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	04/07/2017	11/07/2017	150.36 X 150.44 X 150.35	22620	8.241	416.2	18.4	18.2
2	Column Concrete	M20	04/07/2017	11/07/2017	150.38 X 150.44 X 150.45	22623	8.281	405.0	17.9	
3	Column Concrete	M20	04/07/2017	11/07/2017	150.32 X 150.34 X 150.35	22599	8.236	415.8	18.4	

Note:

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****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-10-07** **Date: 01/08/2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward no.04

Agency : H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/35/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2017

Sample ID No : 2017-07-10-07-02

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	04/07/2017	01/08/2017	150.32 X 150.34 X 150.35	22599	8.255	485.9	21.5	21.3
2	Column Concrete	M20	04/07/2017	01/08/2017	150.29 X 150.27 X 150.35	22584	8.241	483.3	21.4	
3	Column Concrete	M20	04/07/2017	01/08/2017	150.30 X 150.35 X 150.25	22598	8.273	472.3	20.9	

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****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-10-07** **Date: 13/07/2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward no.04

Agency : H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/35/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2017

Sample ID No : 2017-07-10-07-03

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	06/07/2017	13/07/2017	150.61 X 149.74 X 150.39	22552	8.327	374.4	16.6	16.9
2	Column Concrete	M20	06/07/2017	13/07/2017	151.29 X 150.44 X 150.95	22760	8.299	382.4	16.8	
3	Column Concrete	M20	06/07/2017	13/07/2017	151.25 X 151.34 X 150.35	22890	8.324	396.0	17.3	

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****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-10-07** **Date: 03/08/2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Structural roof covering (By space frames) over gallery to Hoysala play ground behind Yelahanka New town Bus stand in Ward no.04

Agency : H. V. Onkarappa, #27, Taralabalu Enclave, Near Police Station, Bangalore-64

Customer's Reference : EE(Project)/Ynk Zone/WO/35/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2017

Sample ID No : 2017-07-10-07-04

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	06/07/2017	03/08/2017	149.25 X 150.74 X 150.61	22498	8.245	477.0	21.2	21.6
2	Column Concrete	M20	06/07/2017	03/08/2017	150.91 X 150.66 X 151.52	22736	8.241	491.1	21.6	
3	Column Concrete	M20	06/07/2017	03/08/2017	150.38 X 151.55 X 150.32	22790	8.228	499.1	21.9	

Note:

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Quality Manager

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